(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 17 February 2005 (17.02.2005)

PCT

(10) International Publication Number WO 2005/014516 A1

- (51) International Patent Classification?: 13/21. C11C 3/14, A61K 31/202
- C07C 57/12,
- (21) International Application Number:

PCT/CA2004/001470

- (22) International Filing Date: 6 August 2004 (06.08.2004)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2.436,650 6

6 August 2003 (06.08.2003) CA

- (71) Applicant (for all designated States except US): UNIVER-SITE LAVAL [CA/CA]; Cité Universitaire, Pavillon des Sciences de l'Education, Québec, Québec G1K 7P4 (CA).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): GARRO GALVEZ, Juan-Miguel [CA/CA]; 1645, rue Des Sables, Sherbrooke, Québec J1J 1B9 (CA). ANGERS, Paul [CA/CA]; 683 rue de Malte, Ste-Foy, Québec G1X 2X5 (CA). BRIAND, Sandie [CA/CA]; 966, rue Victor-Dupuis, Sherbrooke, Québec J1L 2M9 (CA).
- (74) Agent: ROBIC; Centre CDP Capital, 1001, Victoria Square-Bloc E- 8th floor, Montreal, Quebec H2Z 2B7 (CA).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FT, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: CONJUGATED LINOLENIC ACIDS AND METHODS OF PREPARATION AND PURIFICATION AND USES

(57) Abstract: This invention relates to a new conjugated linoleic acids, a process for preparation thereof and method of use. Thus this invention is concerned with the preparation and purification of conjugated linoleic acids from materials rich in alpha or gamma linoleic acids. The reaction produces a mixture containing a 1:1 ratio of 9Z, 11E, 15Z-octadecatrienoic acid and 9Z, 13E, 15Z-octadecatrienoic acid. The mixture can be purified up to 90 % by liquid chromatography, crystallization or urea crystallization. The mixture of 1:1 9Z, 11E, 15Z-octadecatrienoic acid and 9Z, 13E, 15E, 15Z-octadecatrienoic acid have anticancerous activities.

/014516 /